

Patent Abstracts of Japan

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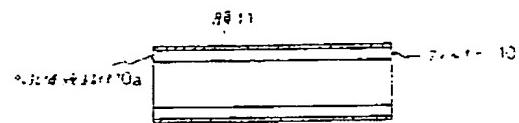
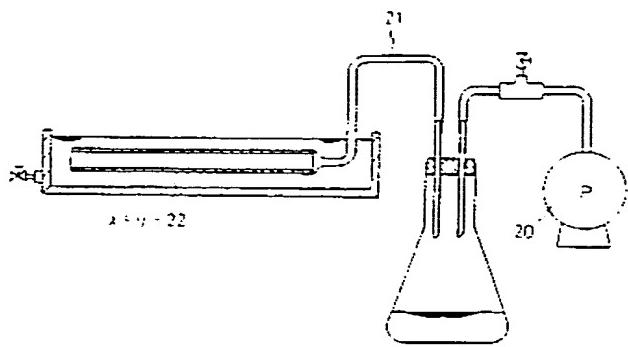
APPLICATION DATE : 28-08-87
 APPLICATION NUMBER : 62215964

APPLICANT : IBIDEN CO LTD;

INVENTOR : TSUKADA KIYOTAKA;

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TITLE : PRODUCTION OF THIN-FILM CERAMIC FILTER



ABSTRACT : PURPOSE: To produce a thin-film ceramic filter having stable quality by immersing a porous sintered body made to a base material into a slurry contg. powder which consists of the same material as the porous sintered body and has uniform particle diameter and causing pressure difference in the inside and outside of the sintered body and forming the coating layer of slurry.

CONSTITUTION: A porous sintered body 10a which is made with a base material, such as silicon carbide, etc., is produced. Then the sintered body 10a is immersed into slurry 22 contg. powder which consists of fine silicon carbide powder, etc., of the same material as the base material and has uniform particle diameter and pressure difference is caused between the inner surface and the outer surface of the sintered body 10a by sucking it with a vacuum pump 20 joined thereto with a rubber hose 21 and the coating layer of a thin film 11 consisting of slurry 22 is formed on the surface of the side having high pressure. After drying the thin film 11 formed on this sintered body 10a, the thin film 11 is sintered together with the sintered body 10a and integrated into one body to obtain a thin-film ceramic filter for precision filtration.

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